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CLAIMS

1. Closed-loop continuous operating pyrolysis system for processing rubber waste, comprising pyrolysis furnace provided with dosing tank, flue-gas channel and external heating unit, furthermore, to the pyrolysis furnace, gas cooler(s) and separating unit(s) as well as solid-product sump are joined by means of gas collector conduit, *characterized in* that the heat exchanger (3) arranged between the pyrolysis furnace (1) and the solid-product sump (7) through a gas conduit (17) provided with a gas-meter (11) and a gas-flow control valve (9) and inserting a circulation ventilator (6) and a suction control valve (8) are joined to the outlet gas conduit (16) of the separating unit(s) (5, 5a, 5b), furthermore consists of a by-pass gas conduit (18) provided with a gas-flow control valve (10) arranged after the circulation ventilator (6), the by-pass gas conduit (18) is joined to the heating apparatus (2) and the cell cavity of the pyrolysis furnace (1) provided with a temperature detector (13) as well as pressure gauge and/or pressure transmitter (12), and the latter is connected to the controlling means of the suction control valve (8).
2. Closed-loop continuous operating pyrolysis system according to the Claim 1, *characterized in* that its pyrolysis furnace (1) is a rotary-drum furnace, and its heating apparatus (2) is an oil burner.
3. Closed-loop continuous operating pyrolysis system according to the Claim 1 ~~or 2~~, *characterized in* that the liquid outlet of the separating unit (5, 5a, 5b) is joined to the heating apparatus (2).
4. Closed-loop continuous operating pyrolysis system according to any of the Claims 1 ~~or 3~~, *characterized in* that its solid-product sump (7) is provided with a sampling unit (20).
5. Closed-loop continuous operating pyrolysis system according to any of the Claims 1 ~~or 4~~, *characterized in* that its gas-meter (11) is a measuring orifice.
6. Closed-loop continuous operating pyrolysis system according to any of the Claims 1 ~~or 5~~, *characterized in* that its gas coolers (4, 4a, 4b) are of water-cooled condensers, while their separating units (5, 5a, 5b) are of gravitational separating units having gas-channel outlet and liquid outlet.

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7. Closed-loop continuous operating pyrolysis system according to any of the Claims 1
~~or 6~~, *characterized in* that to one of their gas conduits (16, 17, 18) a concentration
meter is coupled.

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